					HD 2504	I	PAGE	1
		SEC	rion 1					
PRODUCT DATE OF PRODUCT	PREPARA	ATION	HD 2504 JUNE 28, 2002 PROTECTIVE COATI		PERMA-CAL ?	YELLOW	(AX)	
MANUFACI	TURED BY		PAINTS NORTH AME CLEVELAND , OHIO PAINTS (CANADA), CONCORD, ONTARIO	44115, U.S.A. 8200 KEELE STR	REET,			
EMERGENO	Y AND I		EPHONE NUMBER: 00-545-2643					
MSDS PRE	EPARED I	BY: PROI	OUCT SAFETY AND TO PAINTS NORTH AME	OXICOLOGY DEPAR RICA	TMENT			
		SEC	TION 2: COMPOSIT	ION/INFORMATION	ON INGREDI	ENTS		
		INGREDI	ent				WT.%:	
COMMON N	IAME :	1,2-ETH ETHYLEN 107-21-	E GLYCOL				20-3	D
			Y-1,2-ETHANEDIYL, YDROXY-, BRANCHED ETHER		HENYL) -		5-10	
CHEMICAL COMMON N	NAME :	CLAY					20-3	0
CAS NUME CHEMICAI COMMON N CAS NUME	NAME	1332-58 TITANIU TITANIU 13463-6	M OXIDE				1-5	
CHEMICAI	NAME :		ROPANETRIOL				1-5	
CHEMICAI	NAME	BUTANAM	IDE, 2-((2-METHOX	Y-4-NITROPHENYI	1) AZO)		10-2	0

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

-N-(2-METHOXYPHENYL)-3-OXO-

COMMON NAME: PIGMENT YELLOW 74

CAS NUMBER: 6358-31-2

CHEMICAL NAME BUTANAMIDE, 2-{(4-CHLORO-2-NITROPHENYL)AZO}-N- 5-10

(2-CHLOROPHENYL)-3-OXO-

COMMON NAME : PIGMENT YELLOW 3

CAS NUMBER: 6486-23-3

CHEMICAL NAME WATER 20-30

COMMON NAME : WATER

CAS NUMBER: 7732-18-5

CHEMICAL NAME LECITHINS 1-5

COMMON NAME : LECITHIN CAS NUMBER: 8002-43-5

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION,

DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE,

COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, DIFFICULTY OF

BREATHING, KIDNEY DAMAGE.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE

DERMATITIS, DEFATTING. POSSIBLE SENSITIZATION TO SKIN.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE

CONJUNCTIVITIS, TEARING OF EYES.

INGESTION INGESTION MAY CAUSE DIZZINESS AND/OR LIGHTHEADEDNESS,

HEADACHE, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL

DISTURBANCES, SEVERE ABDOMINAL PAIN, ABDOMINAL PAIN, APATHY,

CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, BLOOD ABNORMALITIES, KIDNEY DAMAGE, PULMONARY

EDEMA, LOSS OF CONSCIOUSNESS, ACUTE POISONING, RESPIRATORY

HD 2504 PAGE 3 SECTION 3: HAZARDS IDENTIFICATION FAILURE, CARDIAC FAILURE, BRAIN DAMAGE. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE EYE, SKIN, RESPIRATORY DISORDERS LUNG DISORDERS KIDNEY DISORDERS _____ SECTION 4: FIRST-AID MEASURES REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED INHALATION BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT. WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, SKIN CONTACT GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY EYE CONTACT UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT. IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY. INGESTION SECTION 5: FIRE-FIGHTING MEASURES LOWER EXPLOSIVE LIMIT NOT AVAILABLE FLASH POINT (SETA) NONE UPPER EXPLOSIVE LIMIT 15.3 (%)

FIRE EXTINGUISHING MEDIA

DRY CHEMICAL OR FOAM

WATER FOG.

CARBON DIOXIDE.

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SECTION 5: FIRE-FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.

MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, PHOSPHOROUS, TOXIC GASES.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL
REGULATIONS.

ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.

COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES. SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

SECTION 7 HANDLING AND STORAGE

SECTION / IMMULING AND STORAGE

HANDLING AND STORAGE

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.

OPEN FLAME. KEEP FROM FREEZING

OTHER PRECAUTIONS USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.

KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND

EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER

HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.

KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION

OF STATIC CHARGE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

ACGIH(STEL): C 100 MG/M3

COMMON NAME : CLAY

CAS NUMBER: 1332-58-7

ACGIH (TWA): 2 MG/M3 OSHA (TWA): 5 MG/M3

COMMON NAME : TITANIUM DIOXIDE

CAS NUMBER: 13463-67-7

ACGIH (TWA): 10 MG/M3 OSHA (TWA): 10 MG/M3

COMMON NAME : GLYCERINE

CAS NUMBER: 56-81-5
ACGIH(TWA): 10 MG/M3 OSHA(TWA): 5 MG/M3

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

HD 2504 PAGE 6 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT VENTILATION BUILD-UP OF VAPORS. PERSONAL PROTECTIVE EQUIPMENT EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES. IMPERVIOUS GLOVES, APRON. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES VAPOR PRESSURE: NOT AVAILABLE SPECIFIC GRAVITY:
BOILING RANGE: 212-500F/ -260C WESTER 1.348 212-500F/ -260C WEIGHT PER GALLON: 11.22/ 13.47IMP 59.46 %VOLATILE BY VOLUME: YELLOW APPEARANCE PHYSICAL STATE: LIQUID SOLUBILITY IN WATER: NOT AVAILABLE PH: NOT AVAILABLE SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS

STABLE

SEE SECTION 5 FIRE FIGHTING MEASURES

MATERIALS TO AVOID

OXIDIZERS.

STYRENE MONOMER

CONDITIONS TO AVOID

CONTACT WITH OXIDIZING AGENT, FREEZING, OPEN FLAME.

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

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SECTION 11: TOXICOLOGICAL INFORMATION										
COMMON NAME: ETHYLENE GLYCOL CAS NUMBER: 107-21-1 CARCINOGENICITY LISTED BY: NTP NO LD50: 4700.00 MG/KG ORL RAT LD50: 5500.00 MG/KG ORL MOU										
COMMON NAME: GLYCOL ETHER CAS NUMBER: 127087-87-0 CARCINOGENICITY LISTED BY: NTP NO	IARC NO OSHA NO ACGIH NO									
COMMON NAME: CLAY CAS NUMBER: 1332-58-7 CARCINOGENICITY LISTED BY: NTP NO	IARC NO OSHA NO ACGIH NO									
COMMON NAME: TITANIUM DIOXIDE CAS NUMBER: 13463-67-7 CARCINOGENICITY LISTED BY: NTP NO LD50: 24.00 GM/KG ORL RAT LC50: 6820.00 MG/M3/4HR IHL RAT	IARC NO OSHA NO ACGIH NO									
COMMON NAME: GLYCERINE CAS NUMBER: 56-81-5 CARCINOGENICITY LISTED BY: NTP NO LD50: 12.60 GM/KG ORL RAT LD50:> 10.00 MG/KG SKN RBT LC50:> 570.00 MG/M3/1HR IHL RAT	IARC NO OSHA NO ACGIH NO									
COMMON NAME: PIGMENT YELLOW 74 CAS NUMBER: 6358-31-2 CARCINOGENICITY LISTED BY: NTP NO	IARC NO OSHA NO ACGIH NO									
COMMON NAME: PIGMENT YELLOW 3 CAS NUMBER: 6486-23-3 CARCINOGENICITY LISTED BY: NTP NO LD50:> 10.00 GM/KG ORL RAT	IARC NO OSHA NO ACGIH NO									
COMMON NAME: LECITHIN CAS NUMBER: 8002-43-5 CARCINOGENICITY LISTED BY: NTP NO	IARC NO OSHA NO ACGIH NO									

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	SECTION 11: TOXICOLOGICAL INFORMATION							
SUPPLEMENTAL HEALT	H INFORMATION NO ADDITIONAL EFFECTS ARE ANTICIPATED							
CARCINOGENICITY	NO CARCINOGENIC EFFECTS ARE ANTICIPAT	ED						
REPRODUCTIVE EFFECTS NO REPRODUCTIVE EFFECTS ARE ANTICIPATED								
MUTAGENICITY	NO MUTAGENIC EFFECTS ARE ANTICIPATED							
TERATOGENICITY	SOME LABORATORY TEST RESULTS HAVE SHOWN BE AN ANIMAL TERATOGEN.	WN ETHYLENE GLY	YCOL TO					
	SECTION 12: ECOLOGICAL INFORMATION			· -				
	NO ECOLOGICAL TESTING HAS BEEN DONE B' PRODUCT AS A WHOLE.	Y ICI PAINTS O	N THIS					
	SECTION 13: DISPOSAL CONSIDERATIONS							
WASTE DISPOSAL	DISPOSE IN ACCORDANCE WITH ALL APPLICATION AVOID DISCHARGE TO NATURAL WATERS.	ABLE REGULATION	ns.					
	SECTION 14: TRANSPORT INFORMATION			· -				
DOT	PAINT ** PROTECT FROM FREEZING **							
IMDG	NOT AVAILABLE							
IATA	NOT AVAILABLE							
TDG	NOT AVAILABLE							

SECTION 15: REGULATORY INFORMATION

SARA SARA CERCLA HAZ AIR MARINE 302 313 302.4 POLLUTANT POLTNT

CAS NUMBER: 107-21-1 NO YES YES YES NO

COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 127087-87-0 NO YES NO YES NO

COMMON NAME : GLYCOL ETHER

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.